

SULPHONATED POLYIMIDES, MEMBRANES PREPARED WITH SAME AND FUEL CELL DEVICE COMPRISING SAID MEMBRANES

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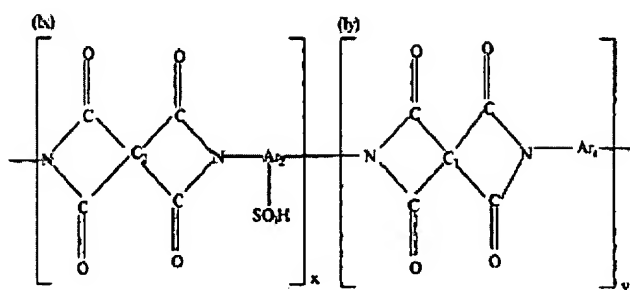
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Abstract of WO0125312

The invention concerns a block polyimide formed with blocks or sequences represented by the following formulae (Ix) and (Iy) wherein: x is a real number between 5 and 10, and y is a real number not less than x; and the groups C1 and C2 can be identical or different and represent each a tetravalent group comprising at least a carbonaceous aromatic cycle, optionally substituted, having 6 to 10 carbon atoms and/or an aromatic heterocycle, optionally substituted, having 5 to 10 carbon atoms and comprising one or several heteroatoms selected among S, N and O; C1 and C2 forming each, with the neighbouring imide groups cycles with 5 or 6 atoms; the groups Ar1 and Ar2 can be identical or different and represent each a divalent group comprising at least a carbonaceous aromatic cycle, optionally substituted, having 6 to 10 carbon atoms and/or an aromatic heterocycle, optionally substituted, having 5 to 10 carbon atoms and comprising one or several heteroatoms selected among S, N and O; at least one of said carbonaceous aromatic cycles or heterocycle of Ar2 being, moreover, substituted by a sulphonic acid group. The invention also concerns a membrane containing said sulphonated polyimide and a fuel cell device comprising at least one of said membranes.



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